

INSTALL GUIDE

**Covers All KEU-300 Series Advanced Factory
Keyless Upgrade Security Systems**

REMOTE STARTERS

CAR ALARMS



**ULTRA
START**

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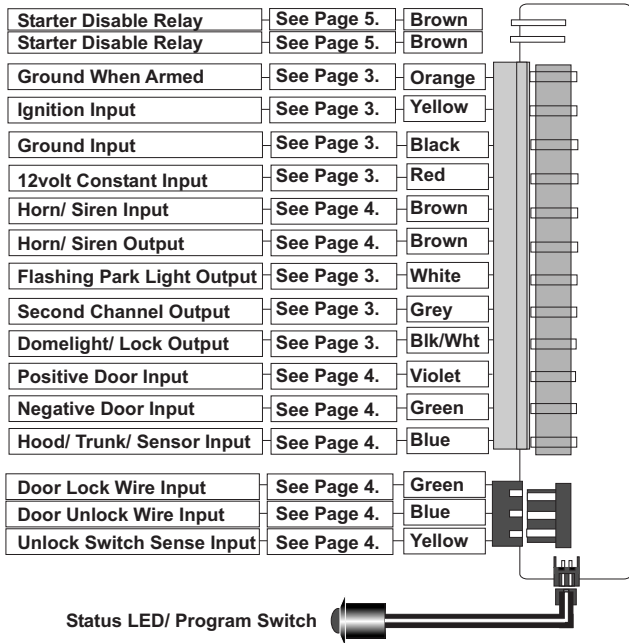
Note: Some features may not be available on certain models.

FCC/ID Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the part responsible for compliance void the user's authority to operate this device.



Shock Sensor Sensitivity

Increase Sensitivity - Turn the adjustment screw clockwise.

Decrease Sensitivity - Turn the adjustment screw counter clockwise.

UP- ON



Down- OFF

Switch #1	Switch #2	Switch #3	Switch #4
Passive	Chirp Delete	Horn Mode	Secure Valet
Active	Chirp Enabled	Siren Mode	Valet Mode

12 pin Main Harness**Red-** +12volt Power Source Input.

Connect this wire to a +12 VDC constant power source. To Battery or Ignition Harness.

Black- System Ground Input.

Connect this wire to chassis ground. To a clean unpainted metal surface.

Yellow- Switched ignition input.

Connect to switched ignition, 12VDC when the key is in the On, Start and run positions. Found at Ignition Harness.

* If this input is connected to a wire that is not a true ignition wire the starter disable and other functions may not work properly.

Grey- 250ma Second Channel Output. (Aux or Remote Start activation)

This wire will supply a 250ma output when the lock button on the transmitter is pressed twice within 3 seconds.

*If the ignition turns on within 5 seconds, the Shock Sensor will be automatically disabled until 10 seconds after the ignition shut back off.

Orange- 500ma Ground When Armed Output.

This wire can be used when adding accessories such as window roll-up modules that require Ground when armed for activation.

White- 12volt Park Light Output

Connect this wire to the park light wire. Positive when the park light switch is activated.

*Do not connect to the dimmer wire!

Black/White- 250ma Domelight or Door Lock Output.

This wire can be used as a 30 second output to activate the dome light or be programmed for door lock output for Passive Door Lock Mode.

****250ma outputs are low current and are designed to activate relays****

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12 Pin Connector....Continued**Purple-** Positive Door Pin Input.

Connect this wire to vehicles that have a door pin that switches to 12 volts when the door is opened.

Green- Negative Door Pin Input.

Connect this wire to vehicles that have a door pin that switches to Negative when the door is opened.

Blue- Negative Hood/ Trunk Input.

Connect this wire to the hood and or trunk pin from the vehicle. Diode isolate if both the hood and trunk are being connected.

Brown Wires- Input/Output for Siren/ Horn. *See Switch #3 for output type.*

Positive Output - Connect one of the brown wires to 12 volts the other brown wire will then supply a 12 volt output.

Negative Output- Connect one of the brown wires to Ground the other brown wire will then supply a Ground output.

3 Pin Connector- Connect this harness before connecting the main harness. The system will automatically learn both positive and negative door locking systems. The default setting is negative door lock system.

To Learn the Door Locking System

- 1) Connect the three pin connector then the main power connector.
- 2) Wait three seconds for the programming to be completed, do not press any buttons until the 3 seconds have passed.

Green- Door Lock Input (Arm Pulse)

Connect this wire to the lock wire of the lock relay circuit.

Blue- Door Unlock Input (Disarm Pulse)

Connect this wire to the unlock wire of the unlock relay circuit.

Note: On systems with Driver's Door Priority, connect this wire to the driver's door unlock wire.

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3 Pin Connector Continued

Yellow- Unlock Switch Sense Input Mode.

This input is designed to prevent the switch from disarming the alarm system.

Connect this wire to the Unlock wire that is activated with the unlock switch in the door but not by the factory remote. Some vehicles will have activation of its unlock wire from both the unlock switch and the remote transmitter. In these situations the unlock wire will need to be diode isolated.

Diode Isolation- Positive Door Lock System.

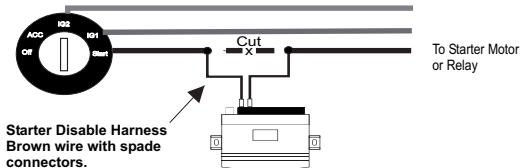
Cut the unlock wire and connect the switch side to both the yellow switch sense and non striped side of the diode. Connect the striped side to the transmitter activated side of the cut unlock wire.

Diode Isolation- Negative Door Lock System.

Cut the unlock wire and connect the switch side to both the Yellow sense wire and the striped side of the diode. Connect the non striped side of the diode to the transmitter activated side of the unlock wire.

2 Pin Starter Disable Wiring harness

Connect both ends of the starter disable harness into the module. Run the other end of the brown harness to the ignition harness and cut it in half. Locate the starter wire at the ignition harness, the starter will only test 12 volts in the "Start" or "Crank" position. After the starter wire is located, cut it in half (The vehicle should not start) then connect the cut brown harness to the cut sides of the starter wire on the vehicle.



DIP Switch Settings

The DIP switches on the module are used to turn programmable features ON and OFF. The following are the features that are controlled by the DIP switches.

Switch #1 ON= Passive Arming
OFF= Active Arming

In Passive Arming Mode the alarm will automatically arm 30 seconds after the last door is closed (Door pin connection required)

In Active Arming Mode the alarm will only activate when the lock button is pressed on the remote transmitter.

Switch #2 ON= Chirps Disabled
OFF= Enabled

Turning this switch off will deactivate the Siren/ Horn Output.

Switch #3 ON= Horn Output
OFF= Siren Output

In Horn Output Mode the output on the Brown wire will pulsed.

In Siren Output Mode the output on the Brown wire will constant.

Switch #4 ON= 15 Second Disarm Mode
OFF= Sense Wire

When this switch is ON-

In this mode if the alarm is triggered the alarm cannot be disabled for 15 seconds. This prevents the system from being immediately disarmed with the door lock switch.

When the switch is OFF-

The switch sense wire must be connected. The system will not disarm if the system detects both the unlock and sense wire inputs.

Note: The system will only disarm if the Blue unlock wire is detected.

System Programming

The following features are programmed using the ignition switch and the LED/ Program Switch.

To Enter Program Mode

- 1) Turn the ignition key "ON/OFF", "ON/OFF" "ON" Leaving the key in the ON position.
- 2) Press and release the LED/ Valet Switch One time. The system will respond with one park light flash and on Siren/ Horn chirp.

System Reset

- 1) Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch. The system will respond with one park light flash and one Siren/ Horn chirp.
- 2) Press and hold the program switch for 3 seconds.

*The park lights will flash and the siren will chirp 3 times to confirm reset.

Setting #1- Secure Valet Mode

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch. The LED will flash **One** time to confirm setting one. Hold the program switch until the siren chirps the appropriate number of times.

- | | | | |
|----------|----------|-------|--|
| 1 Chirp | Secure | Valet | 15 seconds to place the system in valet. |
| 2 Chirps | Standard | Valet | 5 seconds to place the system in valet |

Setting #2- Auto Rearm

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch **2 times**. The LED will flash twice to confirm setting two. Hold the program switch until the siren chirps the appropriate number of times.

- | | | |
|----------|-------------|--|
| 1 Chirp | Auto Arming | Arms 30seconds after unlock is pressed or 30 seconds after last door is closed |
| 2 Chirps | Disabled | Arms with remote only |

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Setting #3- Park Light Output

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch **3 times**. The LED will flash **Three** times to confirm setting Three. Hold the program switch until the siren chirps the appropriate number of times.

1 Chirp	30 Second	The park lights will stay ON for 30 seconds when the system is disarmed.
2 Chirps	Light Flash	Default Park light flashes

Setting #4- Car Jack Mode

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch **4 times**. The LED will flash **Four** times to confirm setting Four. Hold the program switch until the siren chirps the appropriate number of times.

1 Chirp	Car Jack	Car jack Mode enabled
2 Chirps	Default	Car Jack Mode Disabled

Setting #5- Shock Sensor Delete

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch **5 times**. The LED will flash **Five** times to confirm setting Five. Hold the program switch until the siren chirps the appropriate number of times.

1 Chirp	Disabled	Shock Sensor Disabled
2 Chirps	Enabled	Shock Sensor Active

Setting #6- Dome light/ Lock Output

Turn the ignition key "ON/OFF", "ON/OFF" "ON", press and release the program switch **6 times**. The LED will flash **Six** times to confirm setting Six. Hold the program switch until the siren chirps the appropriate number of times.

1 Chirp	Passive Lock Output- Output 30 seconds after last door is closed
2 Chirps	Passive Lock and Ignition Lock Output
3 Chirps	Dome light Supervision Output- 30 second output on unlock